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♦Practice Limited to  
Federal Agencies

November 14, 2003

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Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**Art Unit: 1614**

Re: U.S. Utility Patent Application  
Appl. No. 10/617,876; Filed: July 14, 2003  
For: **Molecular Antigen Arrays**  
Inventors: Bachmann *et al.*  
Our Ref: 1700.0310001/BJD/SJE

Sir:

Transmitted herewith for appropriate action are the following documents:

1. Information Disclosure Statement;
2. Form PTO-1449 (129 sheets citing 434 documents);
3. 410 documents cited in Form PTO-1449 (exclusive of documents AA1 - AB3) attached;
4. First Supplemental Information Disclosure Statement;
5. Form PTO-1449 (3 sheets citing 14 documents);
6. 12 documents cited in Form PTO-1449 attached (exclusive of documents AC3 and AD3); and
7. One (1) return postcard.

Commissioner for Patents  
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Page 2

It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Brian J. Del Buono  
Attorney for Applicants  
Registration No. 42,473

BJD/SJE/lam  
Enclosures

SKGF\_DC1:180918.1



U. S. PATENT DOCUMENTS  EXAMINER INITIAL  FORM PTO-1449  <u>INFORMATION DISCLOSURE STATEMENT</u>		ATTY. DOCKET NO. 1700.0310001/BJD/SJE	APPLICATION NO. 10/617,876
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	77	Fehr, T., et al., "T cell-independent type I antibody response against B cell epitopes expressed repetitively on recombinant virus particles," Proc. Natl. Acad. Sci. USA 95:9477-9481, National Academy Press (1998)
AS	77	Frenkel, D., et al., "Generation of auto-antibodies towards Alzheimer's disease vaccination," Vaccine 19:2615-2619, Elsevier Science, Ltd. (March 2001)
AT	77	International Search Report for International Application No. PCT/IB02/00166 mailed on October 29, 2002. European Patent Office, Netherlands (2002)

EXAMINER	DATE CONSIDERED
<b>EXAMINER:</b> Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.	



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	AN						Yes No
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	78	International Search Report for International Application No. PCT/IB02/00168 mailed on November 4, 2002. European Patent Office, Netherlands (2002)
AS	78	Kozlovska, T.M., et al., "RNA Phage Q $\beta$ Coat Protein as a Carrier for Foreign Epitopes," <i>Intervirology</i> 39:9-15, S. Karger AG (1996)
AT	78	Kratz, P.A., et al., "Native display of complete foreign protein domains on the surface of hepatitis B virus capsids," <i>Proc. Natl. Acad. Sci. USA</i> 96:1915-1920, National Academy of Sciences (1999)

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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	79	Nieland, J.D., et al., "Chimeric Papillomavirus Virus-like Particles Induce a Murine Self-Antigen-Specific Protective and Therapeutic Antitumor Immune Response," <i>J. Cell. Biochem.</i> 73:145-152, Wiley-Liss, Inc. (1999)
AS	79	Slepushkin, V.A., et al., "Protection of mice against influenza A virus challenge by vaccination with baculovirus-expressed M2 protein," <i>Vaccine</i> 13:1399-1402, Elsevier Science Ltd. (1995).
AT	79	Vasiljeva, I., et al., "Mosaic Q $\beta$ coats as a new presentation model," <i>FEBS Lett.</i> 431:7-11, Federation of European Biochemical Societies (1998).

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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	<u>80</u>	International Search Report for International Application No. PCT/IB 02/00166, mailed January 31, 2003. European Patent Office, Netherlands (2002)
AS	<u>80</u>	Baba, T.W., et al., "Pathogenicity of Live, Attenuated SIV After Mucosal Infection of Neonatal Macaques," <i>Science</i> 267:1820-1825, American Association for the Advancement of Science (1995)
AT	<u>80</u>	Bachmann, M.F., et al., "Dendritic cells process exogenous viral proteins and virus-like particles for class I presentation to CD8 <sup>+</sup> cytotoxic T lymphocytes," <i>Eur. J. Immunol.</i> 26:2595-2600, VCH Verlagsgesellschaft mbH (1996)

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	AL4						Yes No
	AM4						Yes No
	AN4						Yes No
	AO4						Yes No
	AP4						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	81	Boorsma, M., et al., "A temperature-regulated replicon-based DNA expression system," <i>Nat. Biotechnol.</i> 18:429-432, Nature America, Inc. (April 2000)
AS	81	Borisova, G., et al., "Hybrid Hepatitis B Virus Nucleocapsid Bearing an Immunodominant Region from Hepatitis B Virus Surface Antigen," <i>J. Virol.</i> 67:3696-3701, American Society for Microbiology (1993)
AT	81	Cesareni, G., "Peptide display on filamentous phage capsids: A new powerful tool to study protein-ligand interaction," <i>FEBS Lett.</i> 307:66-70, Elsevier Science Publishers B.V. (1992)

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	AO						Yes No
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	<u>82</u>	Connor, R.I., et al., "Immunological and Virological Analyses of Persons Infected by Human Immunodeficiency Virus Type 1 while Participating in Trials of Recombinant gp120 Subunit Vaccines," <i>J. Virol.</i> 72:1552-1576, American Society for Microbiology (1998)
AS	<u>82</u>	Crameri, R. and Suter, M., "Display of biologically active proteins on the surface of filamentous phages: a cDNA cloning system for selection of functional gene products linked to the genetic information responsible for their production," <i>Gene</i> 137:69-75, Elsevier Science Publishers B.V. (1993)
AT	<u>82</u>	Daniel, M.D., et al., "Protective Effects of a Live Attenuated SIV Vaccine with a Deletion in the nef Gene," <i>Science</i> 258:1938-1941, American Association for the Advancement of Science (1992)

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**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

AR	<u>83</u>	de la Cruz, V.F., et al., "Immunogenicity and Epitope Mapping of Foreign Sequences via Genetically Engineered Filamentous Phage," <i>J. Biol. Chem.</i> 263:4318-4322, The American Society for Biochemistry and Molecular Biology, Inc. (1988)
AS	<u>83</u>	Donnelly, J.J., et al., "DNA Vaccines," <i>Annu. Rev. Immunol.</i> 15:617-648, Annual Reviews, Inc. (1997)
AT	<u>83</u>	Ebina, S., et al., "Chemical Modification of Bovine Pancreatic Trypsin Inhibitor for Single Site Coupling of Immunogenic Peptides for NMR Conformational Analysis," <i>J. Biol. Chem.</i> 264:7882-7888, The American Society for Biochemistry and Molecular Biology, Inc. (1989)

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**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

AR	84	Esposito, G., et al., "Conformational study of a short Pertussis toxin T cell epitope incorporated in a multiple antigen peptide template by CD and two-dimensional NMR: Analysis of the structural effects on the activity of synthetic immunogens," <i>Eur. J. Biochem.</i> 217:171-187, Blackwell Science Ltd. on behalf of the Federation of European Biochemical Societies (1993)
AS	84	Förster, E., et al., "Natural and recombinant enzymatically active or inactive bee venom phospholipase A <sub>2</sub> has the same potency to release histamine from basophils in patients with Hymenoptera allergy," <i>J. Allergy Clin. Immunol.</i> 95:1229-1235, Mosby-Year Book, Inc. (1995)
AT	84	Frolov, I., et al., "Alphavirus-based expression vectors: Strategies and applications," <i>Proc. Natl. Acad. Sci. USA</i> 93:11371-11377, National Academy Press (1996)

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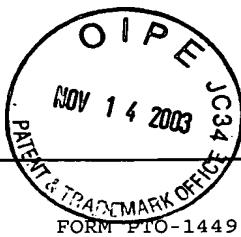
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AR	85	Gilbert, S.C., et al., "A protein particle vaccine containing multiple malaria epitopes," <i>Nat. Biotechnol.</i> 15:1280-1284, Nature America Publishing (1997)
AS	85	Greenstone, H.L., et al., "Chimeric papillomavirus virus-like particles elicit antitumor immunity against the E7 oncoprotein in an HPV16 tumor model," <i>Proc. Natl. Acad. Sci. USA</i> 95:1800-1805, National Academy Press (1998)
AT	85	Hahn, C.S., et al., "Infectious Sindbis virus transient expression vectors for studying antigen processing and presentation," <i>Proc. Natl. Acad. Sci. USA</i> 89:2679-2683, National Academy Press (1992)

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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	<u>86</u>	Harding, C.V., and Song, R., "Phagocytic Processing of Exogenous Particulate Antigens by Macrophages for Presentation by Class I MHC Molecules," <i>J. Immunol.</i> 153:4925-4933, The American Association of Immunologists (1994)
AS	<u>86</u>	Hilleman, M.R., "Six decades of vaccine development - a personal history," <i>Nat. Med. Vaccine Suppl.</i> 4:507-514 (May 1998)
AT	<u>86</u>	Hui, E. K-W. et al., "Hepatitis B viral core proteins with an N-terminal extension can assemble into core-like particles but cannot be enveloped," <i>J. Gen. Virol.</i> 80:2647-2659, Society for General Microbiology (1999)

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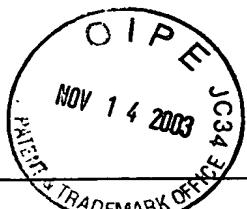
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AR	87	Iannolo, G., et al., "Construction, Exploitation and Evolution of a New Peptide Library Displayed at High Density by Fusion to the Major Coat Protein of Filamentous Phage," <i>Biol. Chem.</i> 378:517-521, Walter de Gruyter & Co. (1997)
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AT	87	Ikram, H., and Prince, A.M., "A method for coupling the Hepatitis B surface antigen to aldehyde-fixed erythrocytes for use in passive hemagglutination," <i>J. Virol. Methods</i> 2:269-275, Elsevier/North-Holland Biomedical Press (1981)

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AR	88	Kovacssovics-Bankowski, M., et al., "Efficient major histocompatibility complex class I presentation of exogenous antigen upon phagocytosis by macrophages," Proc. Natl. Acad. Sci. USA 90:4942-4946, National Academy Press (1993)
AS	88	Lo, K. K-W., et al., "Surface-modified mutants of cytochrome P450cam: enzymatic properties and electrochemistry," FEBS Lett. 451:342-346, Elsevier Science B.V. on behalf of the Federation of European Biochemical Societies (1999)
AT	88	Minenkova, O.O., et al., "Design of specific immunogens using filamentous phage as the carrier," Gene 128:85-88, Elsevier Science Publishers B.V. (1993)

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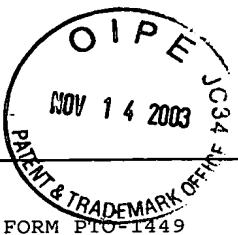
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

AR	<u>89</u>	Neurath, A.R., et al., "Hepatitis B Virus surface antigen (HBsAg) as carrier for synthetic peptides having an attached hydrophobic tail," <i>Mol. Immunol.</i> 26:53-62, Pergamon Press (1989)
AS	<u>89</u>	Perham, R.N., et al., "Engineering a peptide epitope display system on filamentous bacteriophage," <i>FEMS Microbiol. Rev.</i> 17:25-31, Elsevier Science Publishers on behalf of the Federation of European Microbiological Societies (1995)
AT	<u>89</u>	Petrenko, V.A., et al., "A library of organic landscapes on filamentous phage," <i>Protein Engin.</i> 9:797-801, Oxford University Press (1996)

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<u>INFORMATION DISCLOSURE STATEMENT</u>  <small>PATENT &amp; TRADEMARK OFFICE FORM PTO-1449</small>		ATTY. DOCKET NO. 1700.0310001/BJD/SJE	APPLICATION NO. 10/617,876
		APPLICANT BACHMANN et al.	
		FILING DATE July 14, 2003	GROUP 1614

## U.S. PATENT DOCUMENTS

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AL							Yes No
AM							Yes No
AN							Yes No
AO							Yes No
AP							Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	90	Pumpens, P. and Grens, E., "Hepatitis B core particles as a universal display model: a structure-function basis for development," <i>FEBS Lett.</i> 442:1-6, Elsevier Science B.V. on behalf of the Federation of European Biochemical Societies (1999)
AS	90	Quash, G., et al., "The preparation of latex particles with covalently bound polyamines IgG and measles agglutinins and their use in visual agglutination tests," <i>J. Immunol. Methods</i> 22:165-174, Elsevier/North-Holland Biomedical Press (1978)
AT	90	Raychaudhuri, S., and Rock, K.L., "Fully mobilizing host defense: Building better vaccines," <i>Nat. Biotechnol.</i> 16:1025-1031, Nature America, Inc. (1998)

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	AM						Yes No
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	<u>91</u>	Redfield, R.R., et al., "Disseminated vaccinia in a military recruit with Human Immunodeficiency Virus (HIV) disease," <i>N. Eng. J. Med.</i> 316:673-676, Massachusetts Medical Society (1987)
AS	<u>91</u>	Rudolf, M.P., et al., Molecular Basis for Nonanaphylactogenicity of a Monoclonal Anti-IgE Antibody," <i>J. Immunol.</i> 165:813-819, The American Association of Immunologists (2000)
AT	<u>91</u>	Sedlik, C., et al., "Recombinant parvovirus-like particles as an antigen carrier: A novel nonreplicative exogenous antigen to elicit protective antiviral cytotoxic T cells," <i>Proc. Natl. Acad. Sci. USA</i> 94:7503-7508, National Academy Press (1997)

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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	<u>92</u>	Shen, L., et al., "Recombinant Virus Vaccine-Induced SIV-Specific CD8 <sup>+</sup> Cytotoxic T Lymphocytes," <i>Science</i> 252:440-443, American Association for the Advancement of Science (1991)
AS	<u>92</u>	Tanimori, H., et al., "Enzyme Immunoassay of Neocarzinostatin Using $\beta$ -Galactosidase as Label," <i>J. Pharm. Dyn.</i> 4:812-819, Pharmaceutical Society of Japan (1981)
AT	<u>92</u>	Townsend, A., and Bodmer, H., "Antigen recognition by class I-restricted T lymphocytes," <i>Ann. Rev. Immunol.</i> 7:601-624, Annual Reviews, Inc. (1989)

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**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

AR	93	VanCott, T.C., et al., "Antibodies with Specificity to Native gp120 and Neutralization Activity against Primary Human Immunodeficiency Virus Type 1 Isolates Elicited by Immunization with Oligomeric gp160," <i>J. Virol.</i> 71:4319-4330, American Society for Microbiology (1997)
AS	93	Watkins, S.J., et al., "The 'adenobody' approach to viral targeting: specific and enhanced adenoviral gene delivery," <i>Gene Ther.</i> 4:1004-1012, Stockton Press (1997)
AT	93	Willis, A.E., et al., "Immunological properties of foreign peptides in multiple display on a filamentous bacteriophage," <i>Gene</i> 128:79-83, Elsevier Science Publishers B.V. (1993)

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**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

AR	<u>94</u>	Dialog File 351, Accession No. 9831660, Derwent WPI English language abstract for WO 94/06472 (Document AP3)
AS	<u>94</u>	International Preliminary Examination Report for International Application No. PCT/IB99/01925, European Patent Office, Munich (August 2000) (not for publication)
AT	<u>94</u>	International Search Report for International Application No. PCT/IB99/01925, European Patent Office, Netherlands (June 2000) (not for publication)

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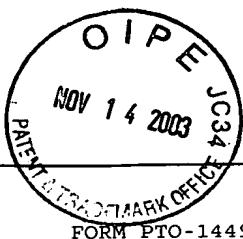
## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>95</u>	NCBI Entrez, GenBank Report, Accession No. P03153, from Seeger, C., et al. (January 1990)
	AS	<u>95</u>	NCBI Entrez, GenBank Report, Accession No. X59397, from Jordan, C.T., et al. (November 1991)
	AT	<u>95</u>	NCBI Entrez, GenBank Report, Accession No. 711678A, from Shipolini, R.A., et al. (July 1992)

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	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	<u>96</u>	NCBI Entrez, GenBank Report, Accession No. M27603, from Orndorff, P.E., and Falkow, S. (April 1993)
AS	<u>96</u>	NCBI Entrez, GenBank Report, Accession No. M20706, from Nassal M. (April 1993)
AT	<u>96</u>	NCBI Entrez, GenBank Report, Accession No. AAA37490, from Rouvier E. (July 1993)

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
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	AM3						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	<u>97</u>	NCBI Entrez, GenBank Report, Accession No. M90520, from Kew, M.C., et al. (August 1993)
AS	<u>97</u>	NCBI Entrez, GenBank Report, Accession No. X00981, from Klemm, P. (September 1993)
AT	<u>97</u>	NCBI Entrez, GenBank Report, Accession No. VCBPQB, from Maita, T., and Konigsberg, W. (December 1993)

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	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	<u>98</u>	NCBI Entrez, GenBank Report, Accession No. AAA16663, from Kozlovska, T.M., et al. (March 1994)
AS	<u>98</u>	NCBI Entrez, GenBank Report, Accession No. X02514, from Yanisch-Perron, C., et al. (May 1994)
AT	<u>98</u>	NCBI Entrez, GenBank Report, Accession No. X85256, from Lai, M.E., et al. (April 1995)

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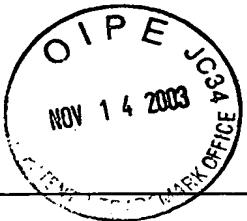
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	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	<u>99</u>	NCBI Entrez, GenBank Report, Accession No. X85259, from Lai, M.E., et al., (April 1995)
AS	<u>99</u>	NCBI Entrez, GenBank Report, Accession No. X85260, from Lai, M.E., et al. (April 1995)
AT	<u>99</u>	NCBI Entrez, GenBank Report, Accession No. X85272, from Lai, M.E., et al. (April 1995)

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	AR	<u>100</u>	NCBI Entrez, GenBank Report, Accession No. X85275, from Lai, M.E., et al. (April 1995)
	AS	<u>100</u>	NCBI Entrez, GenBank Report, Accession No. X85284, from Lai, M.E., et al. (April 1995)
	AT	<u>100</u>	NCBI Entrez, GenBank Report, Accession No. X85285, from Lai, M.E., et al. (April 1995)

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AR	<u>102</u>	NCBI Entrez, GenBank Report, Accession No. X85293, from Lai, M.E., et al. (April 1995)
AS	<u>102</u>	NCBI Entrez, GenBank Report, Accession No. X85295, from Lai, M.E., et al. (April 1995)
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AR	<u>103</u>	NCBI Entrez, GenBank Report, Accession No. X85297, from Lai, M.E., et al. (April 1995)
AS	<u>103</u>	NCBI Entrez, GenBank Report, Accession No. X85298, from Lai, M.E., et al. (April 1995)
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AR	<u>104</u>	NCBI Entrez, GenBank Report, Accession No. X85301, from Lai, M.E., et al. (April 1995)
AS	<u>104</u>	NCBI Entrez, GenBank Report, Accession No. X85302, from Lai, M.E., et al. (April 1995)
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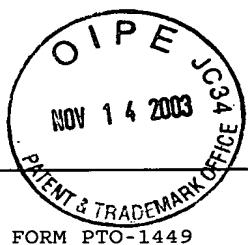
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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

AR	<u>105</u>	NCBI Entrez, GenBank Report, Accession No. X85305, from Lai, M.E., et al. (April 1995)
AS	<u>105</u>	NCBI Entrez, GenBank Report, Accession No. X85307, from Lai, M.E., et al. (April 1995)
AT	<u>105</u>	NCBI Entrez, GenBank Report, Accession No. X85311, from Lai, M.E., et al. (April 1995)

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	<u>106</u>	NCBI Entrez, GenBank Report, Accession No. X85314, from Lai, M.E., et al. (April 1995)
AS	<u>106</u>	NCBI Entrez, GenBank Report, Accession No. X85315, from Lai, M.E., et al. (April 1995)
AT	<u>106</u>	NCBI Entrez, GenBank Report, Accession No. X85316, from Lai, M.E., et al. (April 1995)

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	<u>107</u>	NCBI Entrez, GenBank Report, Accession No. X85317, from Lai, M.E., et al. (April 1995)
AS	<u>107</u>	NCBI Entrez, GenBank Report, Accession No. X85319, from Lai, M.E., et al. (April 1995)
AT	<u>107</u>	NCBI Entrez, GenBank Report, Accession No. X80925, from Karayiannis, P. (December 1995)

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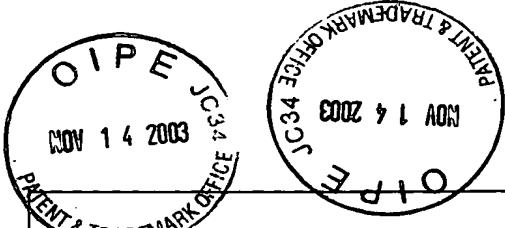
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

AR	<u>108</u>	NCBI Entrez, GenBank Report, Accession No. AAC50341, from Yao, Z., et al. (January 1996)
AS	<u>108</u>	NCBI Entrez, GenBank Report, Accession No. X72702, from Preisler-Adams, S., et al. (February 1996)
AT	<u>108</u>	NCBI Entrez, GenBank Report, Accession No. VCBPR7, from Weber, K., et al. (April 1996)

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>109</u>	NCBI Entrez, GenBank Report, Accession No. 1604193A, from Gomez, F., et al. (October 1996)
	AS	<u>109</u>	NCBI Entrez, GenBank Report, Accession No. B56338, from Hoffman, D.R. (May 1997)
	AT	<u>109</u>	NCBI Entrez, GenBank Report, Accession No. U95551, from Rao, B.S., et al. (June 1997)

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	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	<u>110</u>	NCBI Entrez, GenBank Report, Accession No. S14764, from Vandermeers, A., et al. (October 1997)
AS	<u>110</u>	NCBI Entrez, GenBank Report, Accession No. P03611, from Weber, K., et al. (November 1997)
AT	<u>110</u>	NCBI Entrez, GenBank Report, Accession No. AAC14699, from Beekwilder, M.J., et al. (April 1998)

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	<u>111</u>	NCBI Entrez, GenBank Report, Accession No. AAC14704, from Beekwilder, M.J., et al. (April 1998)
AS	<u>111</u>	NCBI Entrez, GenBank Report, Accession No. AF043593, from Gunther, S., et al. (May 1998)
AT	<u>111</u>	NCBI Entrez, GenBank Report, Accession No. 1POC, from Scott, D.L., et al. (September 1998)

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	<u>112</u>	NCBI Entrez, GenBank Report, Accession No. CAA30374, from Inokuchi, Y., et al. (February 1999)
AS	<u>112</u>	NCBI Entrez, GenBank Report, Accession No. X02496, from Bichko, V., et al. (April 1999)
AT	<u>112</u>	NCBI Entrez, GenBank Report, Accession No. MFIV62, from Cox, N.J., et al. (July 1999)

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	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	<u>113</u>	NCBI Entrez, GenBank Report, Accession No. VCBPFR, from Wittmann-Liebold, B., et al. (July 1999)
AS	<u>113</u>	NCBI Entrez, GenBank Report, Accession No. A59055, from Hoffman, D.R., and Schmidt, J.O. (August 1999)
AT	<u>113</u>	NCBI Entrez, GenBank Report, Accession No. B59055, from Hoffman, D.R., and Schmidt, J.O. (August 1999)

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	<u>114</u>	NCBI Entrez, GenBank Report, Accession No. AF051814, from Boyd, E.F., and Hartl, D.L. (September 1999)
AS	<u>114</u>	NCBI Entrez, GenBank Report, Accession No. AF051815, from Boyd, E.F., and Hartl, D.L. (September 1999)
AT	<u>114</u>	NCBI Entrez, GenBank Report, Accession No. AF110999, from Chang, S.F., et al. (October 1999)

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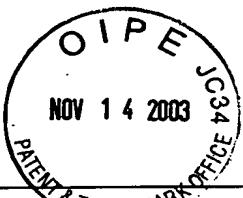
## FOREIGN PATENT DOCUMENTS

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	AL						Yes No
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	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	<u>115</u>	NCBI Entrez, GenBank Report, Accession No. AB033559, from Okamoto, H., et al. (October 1999)
AS	<u>115</u>	NCBI Entrez, GenBank Report, Accession No. AB010289, from Koseki, T., et al. (December 1999)
AT	<u>115</u>	NCBI Entrez, GenBank Report, Accession No. AJ132364, from Graupner, S., et al. (April 2000)

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	AL						Yes No
	AM						Yes No
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	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	<u>116</u>	NCBI Entrez, GenBank Report, Accession No. AF237482, from Johnson, J.R., et al. (May 2000)
AS	<u>116</u>	NCBI Entrez, GenBank Report, Accession No. M32138, from Tong, S.P., et al. (July 2000)
AT	<u>116</u>	NCBI Entrez, GenBank Report, Accession No. AF229646, from Skerker, J.M., and Shapiro, L. (August 2000)

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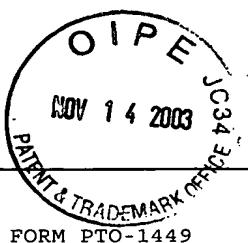
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

AR	<u>117</u>	NCBI Entrez, GenBank Report, Accession No. M95589, from Shi, H., et al. (January 2001)
AS	<u>117</u>	NCBI Entrez, GenBank Report, Accession No. VCBPM2, from Min Jou, W., et al. (January 2001)
AT	<u>117</u>	NCBI Entrez, GenBank Report, Accession No. AF323080, from Steppan, C.M., et al. (January 2001)

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	AP						Yes No

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	AR	<u>118</u>	NCBI Entrez, GenBank Report, Accession No. AF323081, from Steppan, C.M., et al. (January 2001)
	AS	<u>118</u>	NCBI Entrez, GenBank Report, Accession No. U14003, from Plunkett, G., III, et al. (January 2001)
	AT	<u>118</u>	NCBI Entrez, GenBank Report, Accession No. AF121239, from Hannoun, C., et al. (February 2001)

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	AN						Yes No
	AO						Yes No
	AP						Yes No

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AR	<u>119</u>	NCBI Entrez, GenBank Report, Accession No. AF121240, from Hannoun, C., et al. (February 2001)
AS	<u>119</u>	NCBI Entrez, GenBank Report, Accession No. AF121242, from Hannoun, C., et al. (February 2001)
AT	<u>119</u>	NCBI Entrez, GenBank Report, Accession No. X59795, from Lai, M.E., et al. (March 2001)

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>120</u>	NCBI Entrez, GenBank Report, Accession No. X65257, from Lai, M.E., et al. (March 2001)
	AS	<u>120</u>	NCBI Entrez, GenBank Report, Accession No. X65258, from Lai, M.E., et al. (March 2001)
	AT	<u>120</u>	NCBI Entrez, GenBank Report, Accession No. AF151735, from Gerner, P., et al. (April 2001)

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		APPLICANT BACHMANN et al.	
		FILING DATE July 14, 2003	GROUP 1614

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
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## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	<u>121</u>	NCBI Entrez, GenBank Report, Accession No. AJ000636, from Gousset, N., et al. (November 2001)
AS	<u>121</u>	NCBI Entrez, GenBank Report, Accession No. AAB59424, from Kenten, J.H., et al. (February 2002)
AT	<u>121</u>	NCBI Entrez, GenBank Report, Accession No. AAC06250, from Beekwilder, M.J., et al. (March 2002)

EXAMINER	DATE CONSIDERED
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**FOREIGN PATENT DOCUMENTS**

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

AR	<u>122</u>	NCBI Entrez, GenBank Report, Accession No. L09137, from Yanisch-Perron, C., et al. (May 2002)
AS	<u>122</u>	NCBI Entrez, GenBank Report, Accession No. O09006, from Hromas, R., et al. (June 2002)
AT	<u>122</u>	NCBI Entrez, GenBank Report, Accession No. P40224, from Nagasawa, T., et al. (June 2002)

EXAMINER	DATE CONSIDERED

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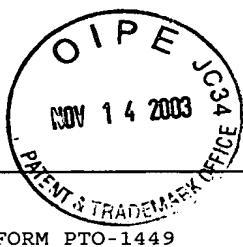
## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	<u>123</u>	NCBI Entrez, GenBank Report, Accession No. P34884, from Bernhagen, J., et al. (June 2002)
AS	<u>123</u>	NCBI Entrez, GenBank Report, Accession No. P06821, from Winter, G., et al. (June 2002)
AT	<u>123</u>	NCBI Entrez, GenBank Report, Accession No. P30904, from Sakai, M., et al. (June 2002)

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	<u>124</u>	NCBI Entrez, GenBank Report, Accession No. NP_040754, from Inokuchi, Y., et al. (June 2003)
AS	<u>124</u>	NCBI Entrez, GenBank Report, Accession No. NP_061354, from Ishikawa, S., et al. (September 2003)
AT	<u>124</u>	NCBI Entrez, GenBank Report, Accession No. NP_031804, from Lenda, D.M., et al. (September 2003)

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	<u>125</u>	NCBI Entrez, GenBank Report, Accession No. NP_006410, from Luther, S.A., et al. (September 2003)
AS	<u>125</u>	NCBI Entrez, GenBank Report, Accession No. NP_000748, from Yao, G.Q., et al. (September 2003)
AT	<u>125</u>	NCBI Entrez, GenBank Report, Accession No. P03069, from Hinnebusch, A.G., et al. (September 2003)

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PATENT & TRADEMARK OFFICE FORM PTO-1449		ATTY. DOCKET NO. 1700.0310001/BJD/SJE	APPLICATION NO. 10/617,876
		APPLICANT BACHMANN et al.	
<u>INFORMATION DISCLOSURE STATEMENT</u>		FILING DATE July 14, 2003	GROUP 1614

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	<u>126</u>	NCBI Entrez, GenBank Report, Accession No. O00585, from Hromas, R., et al. (September 2003)
AS	<u>126</u>	NCBI Entrez, GenBank Report, Accession No. P14174, from Weiser, W.Y., et al. (September 2003)
AT	<u>126</u>	NCBI Entrez, GenBank Report, Accession No. P48061, from Spotila, L.D., et al. (September 2003)

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<u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1700.0310001/BJD/SJE	APPLICATION NO. 10/617,876
	APPLICANT BACHMANN et al.	
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	<u>127</u>	NCBI Entrez, GenBank Report, Accession No. P80003, from Vandermeers, A., et al. (September 2003)
AS	<u>127</u>	Swiss-Prot/TrEMBL, TN11_Mouse, Primary Accession No. O35235, entered in Swiss-Prot in October 2001
AT	<u>127</u>	Swiss-Prot/TrEMBL, TN11_Human, Primary Accession No. O14788, entered in Swiss-Prot in October 2001

EXAMINER	DATE CONSIDERED
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INFORMATION DISCLOSURE STATEMENT		ATTY. DOCKET NO. 1700.0310001/BJD/SJE	APPLICATION NO. 10/617,876
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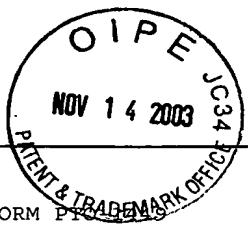
## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	<u>128</u>	Copy of co-pending U.S. application 10/264,267, inventors Bachmann, M., filed October 4, 2002 (NOT PUBLISHED)
AS	<u>128</u>	Copy of co-pending U.S. application 10/289,456, inventors Bachmann et al., filed November 7, 2002 (NOT PUBLISHED)
AT	<u>128</u>	Copy of co-pending U.S. application 10/346,190, inventors Bachmann et al., filed January 17, 2003 (NOT PUBLISHED)

EXAMINER	DATE CONSIDERED
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<u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1700.0310001/BJD/SJE	APPLICATION NO. 10/617,876
	APPLICANT BACHMANN et al.	
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	<u>129</u>	Copy of co-pending U.S. application 10/622,064, inventors Bachmann et al., filed July 18, 2003 (NOT PUBLISHED)
AS	<u>129</u>	Copy of co-pending U.S. application 10/622,087, inventors Bachmann et al., filed July 18, 2003 (NOT PUBLISHED)
AT	<u>129</u>	Copy of co-pending U.S. application 10/622,124, inventors Bachmann et al., filed July 18, 2003 (NOT PUBLISHED)

EXAMINER	DATE CONSIDERED
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

BACHMANN *et al.*

Appl. No. 10/617,876

Filed: July 14, 2003

For: **Molecular Antigen Arrays**

Confirmation No.: 4797

Art Unit: 1614

Examiner: *To be assigned*

Atty. Docket: 1700.0310001/BJD/SJE

**First Supplemental Information Disclosure Statement**

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. The numbering on this First Supplemental Information Disclosure Statement is a continuation of the numbering in Applicants' Information Disclosure Statement filed herewith. A copy of each document is also provided.

Copies of documents **AC3** to **AD3** are not provided in accordance with the U.S. Patent and Trademark Office pre-OG notice of July 11, 2003, which states "[t]he Office hereby waives the requirement under 37 CFR 1.98 (a)(2)(i) for submitting a copy of each cited U.S. patent and each U.S. patent application publication for all U.S. national patent applications filed after June 30, 2003."

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered. This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist.

This Third Supplemental Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits. No statement or fee is required.

Consideration of the cited documents and making the same of record in the prosecution of the above-identified application is respectfully requested. The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

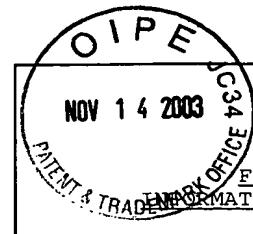
STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Brian J. Del Buono  
Attorney for Applicants  
Registration No. 42,473

Date: November 14, 2003

1100 New York Avenue, N.W.  
Washington, D.C. 20005-3934  
(202) 371-2600



FORM PTO-1449 FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		ATTY. DOCKET NO. 1700.0310001/BJD/SJE		APPLICATION NO. 10/617,876	
		APPLICANT BACHMANN et al.			
		FILING DATE July 14, 2003		GROUP 1614	

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC3	4,918,166	04/17/1990	Kingsman et al.			10/26/1987
	AD3	5,939,598	08/17/1999	Kucherlapati et al.			07/30/1992
	AE						
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## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	A05	WO 03/024481 A2	03/27/2003	WIPO			Yes No
	AP5	WO 02/056905 A1	07/17/2003	WIPO			X Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>130</u>	Chackerian B., et al., "Induction of autoantibodies to mouse CCR5 with recombinant papillomavirus particles," Proc. Natl. Acad. Sci. USA 96:2373-2378, National Academy Press (March 1999)
	AS	<u>130</u>	Gardiner, S.M., et al., "Active immunization with angiotensin I peptide analogue vaccines selectively reduces the pressor effects of exogenous angiotensin I in conscious rats," Br. J. Pharmacol. 129:1178-1182 (March 2000)
	AT	<u>130</u>	Hermanson, G.T., in Bioconjugate Techniques, Academic Press, San Diego, CA, pp. 1-296 (1996)

EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449

**FIRST SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT**
ATTY. DOCKET NO.  
1700.0310001/BJD/SJEAPPLICATION NO.  
10/617,876APPLICANT  
BACHMANN et al.FILING DATE  
July 14, 2003GROUP  
1614**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

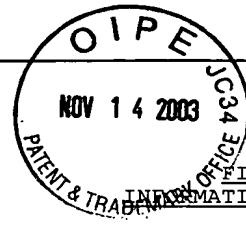
**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

AR	<u>131</u>	Jeannin, P., et al., "Immunogenicity and antigenicity of synthetic peptides derived from the mite allergen Der p I," Mol. Immunol. 30:1511-1518, Pergamon Press, Ltd. (1993)
AS	<u>131</u>	Klovins, J., et al., "Nucleotide sequence of a ssRNA phage from Acinebacter: kinship to coliphages," J. Gen. Virol. 83:1523-1533, Society For General Microbiology (June 2002)
AT	<u>131</u>	Sutcliffe, J.G., et al., "Complete nucleotide sequence of the <i>Esherichia coli</i> Plasmid pBR322," Cold Spring Harb. Symp. Quant. Biol. 43:77-90, Cold Spring Harbor Laboratory Press (1979)

EXAMINER

DATE CONSIDERED

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	APPLICANT BACHMANN et al.	
	FILING DATE July 14, 2003	GROUP 1614

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	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	<u>132</u>	NCBI Entrez, Genbank Report, Accession No. AF334111, from Klovins, J., et al. (February 2002)
AS	<u>132</u>	Jegerlehner, A., et al., "A molecular assembly system that renders antigens of choice highly repetitive for induction of protective B cell responses," Vaccine 20:3104-3112, Elsevier Science, Ltd. (August 2002)
AT	<u>132</u>	The Biology of Animal Viruses, 2nd ed., Fenner, F., et al., eds., Academic Press, New York, NY, pp. 117-119 (1974)

EXAMINER	DATE CONSIDERED

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	AN						Yes No
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	AP						Yes No
<b>OTHER (Including Author, Title, Date, Pertinent Pages, etc.)</b>							
	AR	<u>133</u>	NCBI Entrez, PubMed Abstract, PMID: 2205968, Diallo, A., et al., "Morbillivirus group: genome organization and proteins," Vet. Microbiol. 23:155-163 (1990)				
	AS						
	AT						
EXAMINER					DATE CONSIDERED		
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

BACHMANN *et al.*

Appl. No. 10/617,876

Filed: July 14, 2003

For: **Molecular Antigen Arrays**

Confirmation No.: 4797

Art Unit: 1614

Examiner: *To be assigned*

Atty. Docket: 1700.0310001/BJD/SJE

**Information Disclosure Statement**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. A copy of documents **AL1** to **AN5**; and **AR1** to **AT129** is provided.

Copies of documents **AA1** to **AB3** are not provided in accordance with the U.S. Patent and Trademark Office pre-OG notice of July 11, 2003, which states "[t]he Office hereby waives the requirement under 37 CFR 1.98 (a)(2)(i) for submitting a copy of each cited U.S. patent and each U.S. patent application publication for all U.S. national patent applications filed after June 30, 2003."

The Examiner is referred to the following related, co-pending patent applications:  
U.S. Patent Application No. 09/449,631, inventors Renner *et al.*, filed November 30, 1999, which is equivalent to International Application PCT/IB99/01925, filed November 30, 1999, and which was published in English on June 8, 2000 as WO 00/32227, submitted herewith as document **AP1**.

U.S. Patent Application No. 10/289,454, filed November 7, 2002, inventors Bachmann *et al.*, Pub. No. 2003/0157479 A1, listed as Document **AK2**;

U.S. Patent Application No. 10/050,898, filed January 18, 2002, inventors Renner *et al.*, Pub. No. 2003/0175711 A1, listed as Document **AA3**;

U.S. Patent Application No. 10/050,902, filed January 18, 2002, inventors Renner *et al.*, Pub. No. 2003/0175290 A1, listed as Document **AB3**;

U.S. Patent Application No. 10/264,267, filed October 4, 2002, inventor Bachmann, M, submitted herewith as Document **AR128**;

U.S. Patent Application No. 10/289,456, filed November 7, 2002, inventors Bachmann *et al.*, submitted herewith as Document **AS128**;

U.S. Patent Application No. 10/346,190, filed January 17, 2003, inventors Bachmann *et al.*, submitted herewith as Document **AT128**;

U.S. Patent Application No. 10/622,064, filed July 18, 2003, inventors Bachmann *et al.*, submitted herewith as Document **AR129**;

U.S. Patent Application No. 10/622,087, filed July 18, 2003, inventors Bachmann *et al.*, submitted herewith as Document **AS129**;

U.S. Patent Application No. 10/622,124, filed July 18, 2003, inventors Bachmann *et al.*, submitted herewith as Document **AT129**.

The identification of these U.S. Patent Applications is not to be construed as a waiver of secrecy as to these applications now or upon issuance of the present application as a patent. The Examiner is respectfully requested to consider the cited applications and the art cited therein during examination.

In accordance with 37 C.F.R. § 1.98(a)(3), Applicants' undersigned representative submits the following in regards to non-English language documents cited on the PTO-1449:

Document **AP3**, WO 94/06472 A1, is in the French language. The relevance of Document **AP3** can be ascertained by reference to the English language abstract appearing therein, and an unverified English language abstract attached as Document **AR94**.

Document **AT37**, Kozlovskaya, T.M., *et al.*, "Formation of capsid-like structures as a result of the expression of a cloned envelope protein gene from RNA-containing bacteriophage fr," *Dokl. Akad. Nauk. SSSR* 287:452-455 (1986), is in the Russian language. An unverified English language abstract (from STNEasy/CAplus) is attached as Document **AR38**.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered. This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist.

This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits. No statement or fee is required.

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449, and to indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



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Date: Nov. 14, 2003

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FORM PTO-1449  INFORMATION DISCLOSURE STATEMENT		ATTY. DOCKET NO. 1700.0310001/BJD/SJE	APPLICATION NO. 10/617,876
		APPLICANT BACHMANN et al.	
		FILING DATE July 14, 2003	GROUP 1614

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA1	4,722,840	02/02/1988	Valenzuela et al.			09/19/1985
	AB1	5,071,651	12/10/1991	Sabara et al.			03/05/1990
	AC1	5,143,726	09/01/1992	Thornton et al.			11/20/1989
	AD1	5,334,394	08/02/1994	Kossovsky et al.			01/04/1993
	AE1	5,374,426	12/20/1994	Sabara et al.			10/30/1989
	AF1	5,580,859	12/03/1996	Felgner et al.			03/18/1994
○	AG1	5,698,424	12/16/1997	Mastico et al.			01/03/1995
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	AI1	5,766,602	06/16/1998	Xiong et al.			01/19/1995
	AJ1	5,770,380	06/23/1998	Hamilton et al.			09/13/1996
	AK1	5,789,245	08/04/1998	Dubensky, Jr. et al.			10/30/1996

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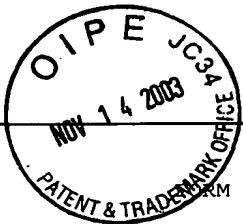
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL1	WO 92/11291 A1	07/09/1992	WIPO			Yes No
	AM1	WO 96/30523 A2	10/03/1996	WIPO			Yes No
	AN1	WO 97/31948 A1	09/04/1997	WIPO			Yes No
	AO1	WO 98/15631 A1	04/16/1998	WIPO			Yes No
	AP1	WO 00/32227 A2	06/08/2000	WIPO			Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	1	Abraham, J.M., et al., "An invertible element of DNA controls phase variation of type 1 fimbriae of <i>Escherichia coli</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 82:5724-5727, National Academy Press (1985)
	AS	1	Abraham, S.N., et al., "Glycerol-Induced Unraveling of the Tight Helical Conformation of <i>Escherichia coli</i> Type 1 Fimbriae," <i>J. Bacteriol.</i> 174:5145-5148, American Society for Microbiology (1992)
	AT	1	Adhin, M.R., et al., "Nucleotide Sequence from the ssRNA Bacteriophage JP34 Resolves the Discrepancy between Serological and Biophysical Classification," <i>Virology</i> 170:238-242, Academic Press, Inc. (1989)

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	AA2	5,792,462	08/11/1998	Johnston et al.			05/23/1995
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	AE2	6,004,763	12/21/1999	Gengoux et al.			05/12/1998
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	AK2	2003/0157479 A1	08/21/2003	Bachmann et al.			11/07/2002

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
/	AL2	WO 00/59928 A1	10/12/2000	WIPO			Yes No
/	AM2	WO 00/23955 A1	04/27/2000	WIPO			Yes No
/	AN2	WO 01/62284 A2	08/30/2001	WIPO			Yes No
/	AO2	WO 01/85208 A2	11/15/2001	WIPO			Yes No
/	AP2	WO 99/28478 A1	06/10/1999	WIPO			Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

/	AR	2	Aguzzi, A., "Prion diseases, blood and the immune system: concerns and reality," <i>Haematologica</i> 85:3-10, Il Pensiero Scientifico Editore (January 2000)
/	AS	2	Ansel, K.M., et al., "In Vivo-activated CD4 T Cells Upregulate CXC Chemokine Receptor 5 and Reprogram Their Response to Lymphoid Chemokines," <i>J. Exp. Med.</i> 190:1123-1134, The Rockefeller University Press (1999)
/	AT	2	Ansel, K.M., et al., "A chemokine-driven positive feedback loop organizes lymphoid follicles," <i>Nature</i> 406:309-314, Nature Publishing Group (July 2000)

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	AA3	2003/0175711 A1	09/08/2003	Renner et al.			01/18/2002
	AB3	2003/0175290 A1	09/18/2003	Renner et al.			01/18/2002
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/	AL3	WO 99/57289 A2 & A3	11/11/1999	WIPO			Yes No
/	AM3	WO 00/50461 A1	08/31/2000	WIPO			Yes No
/	AN3	EP 0 259 149 B1	12/15/1993	Europe			Yes No
/	AO3	EP 0 385 610 B1	03/16/1994	Europe			Yes No
/	AP3	WO 94/06472 A1	03/31/1994	WIPO			X Yes No

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AR	3	Antonyasamy, M.A., et al., "Evidence for a Role of IL-17 in Organ Allograft Rejection: IL-17 Promotes the Functional Differentiation of Dendritic Cell Progenitors," <i>J. Immunol.</i> 162:577-584, The American Association of Immunologists (1999)
AS	3	Arenberg, D.A., et al., "The murine CC chemokine, 6C-kine, inhibits tumor growth and angiogenesis in a human lung cancer SCID mouse model," <i>Cancer Immunol. Immunother.</i> 49:587-592, Springer-Verlag (January 2001)
AT	3	Arnon, R., et al., "A mimotope peptide-based vaccine against <i>Schistosoma mansoni</i> : synthesis and characterization," <i>Immunology</i> 101:555-562, Blackwell Science, Ltd. (December 2000)

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/	AL4	EP 0 465 081 B1	04/20/1994	Europe			Yes No
/	AM4	EP 0 283 505 B1	07/06/1994	Europe			Yes No
/	AN4	WO 94/15585 A1	07/21/1994	WIPO			Yes No
/	AO4	EP 0 425 082 B1	04/26/1995	Europe			Yes No
/	AP4	WO 96/05293 A1	02/22/1996	WIPO			Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	4	Bachmann, M.F., and Zinkernagel, R.M., "The influence of virus structure on antibody responses and virus serotype formation," <i>Immunol. Today</i> 17:553-558, Elsevier Science, Ltd. (1996)
AS	4	Bachmann, M.F., and Zinkernagel, R.M., "Neutralizing Antiviral B Cell Responses," <i>Annu. Rev. Immunol.</i> 15:235-270, Annual Reviews, Inc. (1997)
AT	4	Bachmann, M.F., et al., "TRANCE, a Tumor Necrosis Factor Family Member Critical for CD40 Ligand-independent T Helper Cell Activation," <i>J. Exp. Med.</i> 189:1025-1031, The Rockefeller University Press (1999)

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/	AL5	WO 99/07839 A2 & A3	02/18/1999	WIPO			Yes No
/	AM5	WO 99/40934 A1	08/19/1999	WIPO			Yes No
/	AN5	WO 99/67293 A1	12/29/1999	WIPO			Yes No
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	AP						Yes No

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AR	5	Banerjee, R.R., and Lazar, M.A., "Dimerization of Resistin and Resistin-like Molecules Is Determined by a Single Cysteine," <i>J. Biol. Chem.</i> 276:25970-25973, The American Society for Biochemistry and Molecular Biology, Inc. (July 2001)
AS	5	Bard, F. et al., "Peripherally administered antibodies against amyloid $\beta$ -peptide enter the central nervous system and reduce pathology in a mouse model of Alzheimer disease," <i>Nat. Med.</i> 6:916-919, Nature Publishing Company (August 2000)
AT	5	Bass, S., and Yang, M., "Expressing cloned genes in <i>Escherichia coli</i> ," in <i>Protein Function: A Practical Approach</i> , 2nd ed., Creighton, T.E., ed., IRL Press, Oxford, Great Britain, pp. 29-55 (1997)

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	AL						Yes No
	AM						Yes No
	AN						Yes No
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	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

AR	6	Bernhagen, J., et al., "Purification, Bioactivity, and Secondary Structure Analysis of Mouse and Human Macrophage Migration Inhibitory Factor (MIF)," <i>Biochemistry</i> 33:14144-14155, American Chemical Society (1994)
AS	6	Biasselle, C.J., and Millar, D.B., "Studies on Triton X-100 detergent micelles," <i>Biophys. Chem.</i> 3:355-361, North-Holland Publishing Company (1975)
AT	6	Bleul, C.C., et al., "The lymphocyte chemoattractant SDF-1 is a ligand for LESTR/fusin and blocks HIV-1 entry," <i>Nature</i> 382:829-833, Nature Publishing Group (1996)

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	AL						Yes No
	AM						Yes No
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	AP						Yes No

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AR	7	Blomfield, I.C., et al., "Type 1 Fimbriation and fimE Mutants of <i>Escherichia coli</i> K-12," <i>J. Bacteriol.</i> 173:5298-5307, American Society for Microbiology (1991)
AS	7	Blomfield, I.C., et al., "Integration host factor stimulates both FimB- and FimE-mediated site-specific DNA inversion that controls phase variation of type 1 fimbriae expression in <i>Escherichia coli</i> ," <i>Mol. Microbiol.</i> 23:705-717, Blackwell Science, Ltd. (1997)
AT	7	Boder, E.T., and Wittrup, K.D., "Yeast Surface Display for Directed Evolution of Protein Expression, Affinity, and Stability," <i>Methods Enzymol.</i> 328:430-444, Academic Press (October 2000)

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	8	Bonci, A., et al., "Relatedness and Phylogeny Within the Family of Periplasmic Chaperones Involved in the Assembly of Pili or Capsule-Like Structures of Gram-Negative Bacteria," <i>J. Mol. Evol.</i> 44:299-309, Springer-Verlag (1997)
AS	8	Brandner, S., et al., "A crucial role for B cells in neuroinvasive scrapie," <i>Transfus. Clin. Biol.</i> 6:17-23, Elsevier, Paris (1999)
AT	8	Brinton, Jr., C.C., "The structure, function, synthesis and genetic control of bacterial pili and a molecular model for DNA and RNA transport in gram negative bacteria," <i>Trans. N.Y. Acad. Sci.</i> 27:1003-1054, New York Academy of Sciences (1965)

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	AM						Yes No
	AN						Yes No
	AO						Yes No
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AR	9	Brown, K.D., et al., "A family of small inducible proteins secreted by leukocytes are members of a new superfamily that includes leukocyte and fibroblast-derived inflammatory agents, growth factors, and indicators of various activation processes," <i>J. Immunol.</i> 142:679-687, The American Association of Immunologists (1989)
AS	9	Brown, P.M., et al., "A Single-Step Purification of Biologically Active Recombinant Human Interleukin-5 from a Baculovirus Expression System," <i>Protein Expr. Purif.</i> 6:63-71, Academic Press, Inc. (1995)
AT	9	Brown, K.L., et al., "Scrapie replication in lymphoid tissues depends on prion protein-expressing follicular dendritic cells," <i>Nat. Med.</i> 11:1308-1312, Nature Publishing Company (1999)

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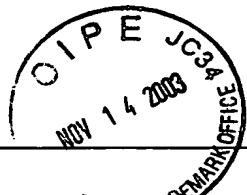
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

AR	<u>10</u>	Bullitt, E., et al., "Development of pilus organelle subassemblies in vitro depends on chaperone uncapping of a beta zipper," Proc. Natl. Acad. Sci. USA 93:12890-12895, National Academy Press (1996)
AS	<u>10</u>	Bullitt, E., and Makowski, L., "Bacterial Adhesion Pili Are Heterologous Assemblies of Similar Subunits," Biophys. J. 74:623-632, Biophysical Society (1998)
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UNT & TRADEMARK OFFICE FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>		ATTY. DOCKET NO. 1700.0310001/BJD/SJE	APPLICATION NO. 10/617,876
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AR	<u>11</u>	Burghoff, R.L., et al., "Utilization of the Mouse Large Intestine To Select an Escherichia coli F-18 DNA Sequence That Enhances Colonizing Ability and Stimulates Synthesis of Type 1 Fimbriae," <i>Infect. Immun.</i> 61:1293-1300, American Society for Microbiology (1993)
AS	<u>11</u>	Cannon-Carlson S., et al., "Expression, Purification, and Characterization of Recombinant Human Interleukin-13 from NS-O Cells," <i>Protein Expr. Purif.</i> 12:239-248, Academic Press (1998)
AT	<u>11</u>	Chabaud, M., et al., "Enhancing Effect of IL-17 on IL-1-Induced IL-6 and Leukemia Inhibitory Factor Production by Rheumatoid Arthritis Synoviocytes and Its Regulation by Th2 Cytokines," <i>J. Immunol.</i> 161: 409-414, The American Association of Immunologists (1998)

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FORM PTO-1449  <u>INFORMATION DISCLOSURE STATEMENT</u>		ATTY. DOCKET NO. 1700.0310001/BJD/SJE	APPLICATION NO. 10/617,876
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AR	<u>12</u>	Chabaud, M., et al., "Human Interleukin-17. A T Cell-Derived Proinflammatory Cytokine Produced by the Rheumatoid Synovium," <i>Arthritis Rheum.</i> 42:963-970, Wiley-Liss, Inc. (1999)
AS	<u>12</u>	Chabaud, M., et al., "Contribution of Interleukin 17 to synovium matrix destruction in rheumatoid arthritis," <i>Cytokine</i> 12:1092-1099, Cell Press (July 2000)
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AR	<u>13</u>	Clark-Lewis, I., et al., "Chemical Synthesis, Purification, and Characterization of Two Inflammatory Proteins, Neutrophil Activating Peptide 1 (Interleukin-8) and Neutrophil Activating Peptide 2," <i>Biochemistry</i> 30:3128-3135, American Chemical Society (1991)
AS	<u>13</u>	Coffman, R.L., et al., "Antibody to Interleukin-5 Inhibits Helminth-Induced Eosinophilia in Mice," <i>Science</i> 245:308-310, American Association for the Advancement of Science (1989)
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AR	17	Eisenmesser, E.Z., et al., "Expression, Purification, Refolding, and Characterization of Recombinant Human Interleukin-13: Utilization of Intracellular Processing," <i>Protein Expr. Purif.</i> 20:186-195, Academic Press (November 2000)
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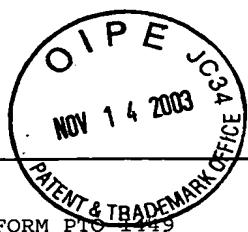
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AR	<u>18</u>	Elisseeva, E.L., et al., "NMR Studies of Active N-terminal Peptides of Stromal Cell-derived Factor-1," <i>J. Biol. Chem.</i> 275:26799-26805, The American Society for Biochemistry and Molecular Biology, Inc. (September 2000)
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AT	<u>18</u>	Ettinger, R., et al., "A Critical Role for Lymphotoxin- $\beta$ Receptor in the Development of Diabetes in Nonobese Diabetic Mice," <i>J. Exp. Med.</i> 193:1333-1339, The Rockefeller University Press (June 2001)

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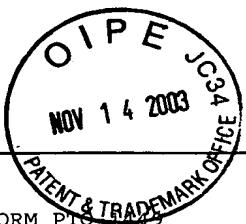
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	AM						Yes No
	AN						Yes No
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AR	<u>19</u>	Fehr, T., et al., "Role of Repetitive Antigen Patterns for Induction of Antibodies Against Antibodies," <i>J Exp. Med.</i> 185:1785-1792, The Rockefeller University Press (1997)
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AT	<u>19</u>	Folkman, J., "Angiogenesis in cancer, vascular, rheumatoid and other disease," <i>Nat. Med.</i> 1:27-31, Nature Publishing Company (1995)

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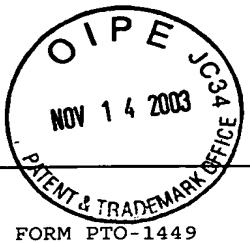
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AR	<u>20</u>	Forssmann, U., et al., "Eotaxin-2, a Novel CC Chemokine that Is Selective for the Chemokine Receptor CCR3, and Acts Like Eotaxin on Human Eosinophil and Basophil Leukocytes," <i>J. Exp. Med.</i> 185:2171-2176, The Rockefeller University Press (1997)
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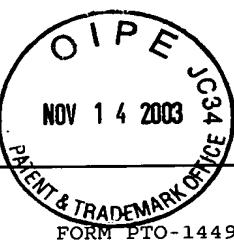
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AR	24	Harrison, J.L., et al., "Screening of Phage Antibody Libraries," <i>Methods Enzymol.</i> 267:83-109, Macmillan Publishers, Ltd. (1996)
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AT	24	Hedrick, J.A., and Zlotnik, A., "Identification and Characterization of a Novel $\beta$ Chemokine Containing Six Conserved Cysteines," <i>J. Immunol.</i> 159: 1589-1593, The American Association of Immunologists (1997)

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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	25	Heveker, N., et al., Dissociation of the signalling and antiviral properties of SDF-1-derived small peptides," <i>Curr. Biol.</i> 8:369-376, Current Biology, Ltd. (1998)
AS	25	Hirel, P.-H., et al., "Extent of N-terminal methionine excision from <i>Escherichia coli</i> proteins is governed by the side-chain length of the penultimate amino acid," <i>Proc. Natl. Acad. Sci. USA</i> 86:8247-8251, National Academy Press (1989)
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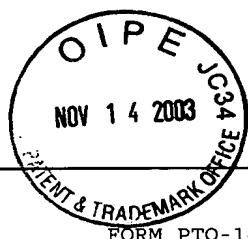
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AR	<u>26</u>	Holmgren, A., et al., "Conserved immunoglobulin-like features in a family of periplasmic pilus chaperones in bacteria," <i>EMBO J.</i> 11:1617-1622, Oxford University Press (1992)
AS	<u>26</u>	Holmgren, A., and Bränden, C.-I., "Crystal structure of chaperone protein PapD reveals an immunoglobulin fold," <i>Nature</i> 342:248-251, Nature Publishing Group (1989)
AT	<u>26</u>	Hultgren, S.J., et al., "The PapG adhesin of uropathogenic <i>Escherichia coli</i> contains separate regions for receptor binding and for the incorporation into the pilus," <i>Proc. Natl. Acad. Sci. USA</i> 86:4357-4361, National Academy Press (1989)

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AR	27	Hultgren, S.J., et al., "PapD and superfamily of periplasmic immunoglobulin-like pilus chaperones," Adv. Prot. Chem. 44:99-123, Academic Press, Inc. (1993)
AS	27	Hultgren, S.J., et al., "Pilus and Nonpilus Bacterial Adhesins: Assembly and Function in Cell Recognition," Cell 73:887-901, Cell Press (1993)
AT	27	Hultgren, S.J., et al., "Bacterial Adhesins and Their Assembly," in Escherichia coli and Salmonella, Neidhardt, F.C., et al., eds., ASM Press, Washington, D.C. pp. 2730-2756 (1996)

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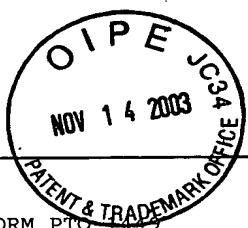
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AT	<u>28</u>	Hung, D.L. and Hultgren, S.J., "Pilus Biogenesis via the Chaperone/Usher Pathway: An Integration of Structure and Function," <i>J. Struct. Biol.</i> 124:201-220, Academic Press (1998)

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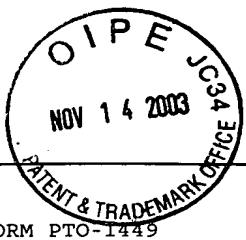
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AR	<u>29</u>	Ikeda, T., et al., "Determination of Three Isoforms of the Receptor Activator of Nuclear Factor- $\kappa$ B Ligand and Their Differential Expression in Bone and Thymus," <i>Endocrinology</i> 142:1419-1426, The Endocrine Society (April 2001)
AS	<u>29</u>	Ingle E., et al., "Production and purification of recombinant human interleukin-5 from yeast and baculovirus expression systems," <i>Eur. J. Biochem.</i> 196:623-629, Blackwell Science, Ltd. (1991)
AT	<u>29</u>	Jacob-Dubuisson, F., et al., "PapD chaperone function in pilus biogenesis depends on oxidant and chaperone-like activities of DsbA," <i>Proc. Natl. Acad. Sci. USA</i> 91:11552-11556, National Academy Press (1994)

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AR	30	Jacob-Dubuisson, F., et al., "Initiation of assembly and association of the structural elements of a bacterial pilus depend on two specialized tip proteins," <i>EMBO J.</i> 12:837-847, Oxford University Press (1993)
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AT	30	Jiang, X., et al., "Norwalk Virus Genome Cloning and Characterization," <i>Science</i> 250:1580-1583, American Association for the Advancement of Science (1990)

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AR	<u>31</u>	Jones, C.H., et al., "FimC is a periplasmic PapD-like chaperone that directs assembly of type 1 pili in bacteria," Proc. Natl. Acad. Sci. USA 90:8397-8401, National Academy Press (1993)
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AT	<u>31</u>	Josien, R., et al., "TRANCE, a Tumor Necrosis Factor Family Member, Enhances the Longevity and Adjuvant Properties of Dendritic Cells In Vivo," J. Exp. Med. 191: 495-501, The Rockefeller University Press (February 2000)

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AR	<u>32</u>	Jovanovic, D.V., et al., "IL-17 Stimulates the Production and Expression of Proinflammatory Cytokines, IL- $\beta$ and TNF- $\alpha$ , by Human Macrophages," <i>J. Immunol.</i> 160:3513-3521, The American Association of Immunologists (1998)
AS	<u>32</u>	Kapp, U., et al., "Interleukin 13 Is Secreted by and Stimulates the Growth of Hodgkin and Reed-Sternberg Cells," <i>J. Exp. Med.</i> 189:1939-1945, The Rockefeller University Press (1999)
AT	<u>32</u>	Kastelein, R.A. et al., "Effect of the sequence upstream from the ribosome-binding site on the yield of protein from the cloned gene for phage MS2 coat protein," <i>Gene</i> 23:245-254, Elsevier (1983)

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AR	<u>33</u>	Kim, K.J., et al., "Inhibition of vascular endothelial growth factor-induced angiogenesis suppresses tumour growth <i>in vivo</i> ," <i>Nature</i> 362:841-844, Nature Publishing Group (1993)
AS	<u>33</u>	Kim, K.-H., et al., "A Cysteine-rich Adipose Tissue-specific Secretory Factor Inhibits Adipocyte Differentiation," <i>J. Biol. Chem.</i> 276:11252-11256, The American Society for Biochemistry and Molecular Biology, Inc. (April 2001)
AT	<u>33</u>	Klemm, P., "The <i>fimA</i> gene encoding the type-1 fimbrial subunit of <i>Escherichia coli</i> . Nucleotide sequence and primary structure of the protein," <i>Euro. J. Biochem.</i> 143:395-399, Blackwell Science, Ltd. (1984)

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AR	<u>34</u>	Klemm, P., and Christiansen, G., "Three <i>fim</i> genes required for the regulation of length and mediation of adhesion of <i>Escherichia coli</i> type 1 fimbriae," <i>Mol. Gen. Genet.</i> 208:439-445, Springer-Verlag (1987)
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AT	<u>34</u>	Klemm, P., and Christiansen, G., "The <i>fimD</i> gene required for cell surface localization of <i>Escherichia coli</i> type 1 fimbriae," <i>Mol. Gen. Genet.</i> 220:334-338, Springer-Verlag (1990)

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AT	<u>35</u>	Kodama, S., et al., "Characterization of recombinant murine interleukin 5 expressed in Chinese hamster ovary cells," <i>Glycobiology</i> 2:419-427, Oxford University Press (1992)

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AR	37	Koths, K., "Structure-Function Studies on Human Macrophage Colony-Stimulating Factor (M-CSF)," <i>Mol. Reprod. Dev.</i> 46:31-38, Wiley-Liss, Inc. (1997)
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	<u>39</u>	Kunimoto, D.Y., et al., "High-level production of murine interleukin-5 (IL-5) utilizing recombinant baculovirus expression. Purification of the rIL-5 and its use in assessing the biologic role of IL-5 glycosylation," <i>Cytokine</i> 3:224-230, W.B. Saunders Company (1991)
AS	<u>39</u>	Landschulz, W.H., et al., "The Leucine Zipper: A Hypothetical Structure Common to a New Class of DNA Binding Proteins," <i>Science</i> 240:1759-1764, American Association for the Advancement of Science (1988)
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	AL						Yes No
	AM						Yes No
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AR	53	Nilsson, P., et al., "Mutations Affecting mRNA Processing and Fimbrial Biogenesis in the <i>Escherichia coli</i> pap Operon," <i>J. Bacteriol.</i> 178:683-690, American Society for Microbiology (1996)
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AR	<u>60</u>	Romagnani, S., "The Th1/Th2 paradigm," <i>Immunol. Today</i> 18:263-266, Elsevier Science, Ltd. (1997)
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AR	<u>61</u>	Russell, P.W., and Orndorff, P.E., "Lesions in Two <i>Escherichia coli</i> Type 1 Pilus Genes Alter Pilus Number and Length without Affecting Receptor Binding," <i>J. Bacteriol.</i> 174:5923-5935, American Society for Microbiology (1992)
AS	<u>61</u>	Santos, L., et al., "Role of macrophage migration inhibitory factor (MIF) in murine antigen-induced arthritis: interaction with glucocorticoids," <i>Clin. Exp. Immunol.</i> 123:309-314, Blackwell Science (February 2001)
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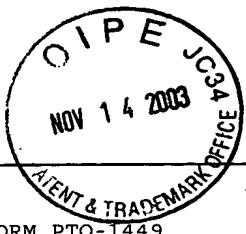
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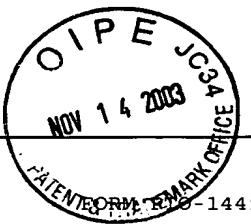
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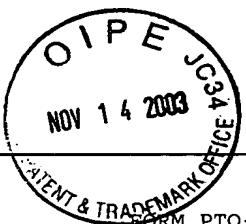
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